

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : **2002-220340**

(43)Date of publication of application : **09.08.2002**

---

(51)Int.Cl.

A61K 35/78  
A23F 3/16  
A23L 1/30  
A23L 2/52  
A61K 31/353  
A61P 27/02  
A61P 29/00  
A61P 35/00  
A61P 43/00

---

(21)Application number : **2001-359535**

(71)Applicant : **ITO EN LTD**

(22)Date of filing : **26.11.2001**

(72)Inventor : **SAGESAKA HIROKO  
NISHITANI EISEI  
RIN CHINCHUI  
CHEN FONCHII  
WEITMAN STEVE  
MOORE RODNEY**

---

(30)Priority

Priority number : **2000357500**    Priority date : **24.11.2000**    Priority country : **JP**

---

## (54) ORIGINATED FROM TEA PHARMACOLOGICAL COMPOSITION

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a new usage of warm water extract from tea.

SOLUTION: A catechin pharmacological activity enhancer containing a warm water extracted non-catechin component as an active ingredient produced by extraction with the warm water of 10 to 20 times amount of tea leaves at about 60-70°C for about 15 to 30 minutes followed by exclusion of catechins, when administered with catechins, synergistically increases its pharmacological activity of catechins and provides an excellent pharmacological effect such as cyclooxygenase-2 activity inhibition, interferon- $\gamma$  production inhibition, tumor necrosis factor- $\alpha$  production inhibition, fibronectin related cellular adhesion inhibition, vascular endodermis growth inhibition by vascular endodermis growth factor(VEGF) and mastocarcinoma cell

growth inhibition.

---

LEGAL STATUS

[Date of request for examination] 28.04.2004

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office